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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 22/04/2021

Lab ID	:	CP-2021-06-22-31
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and drains at SFS 707 and Surrounding Area in Ward No 03."
Agency	:	Sri.H S Palaksha Murthy, No:703, 6th Main Road, 4th Cross, Near Gandhi Park, Vijayanagara, Bangalore-560040
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-9/W.O/264/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-04-21
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	22/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	15/04/2021	22/04/2021	150.95 X 149.08 X 150.70	22503	8.574	413.7	18.4	18.2
2	Drain Side Wall Concrete	M20	15/04/2021	22/04/2021	151.05 X 151.26 X 150.80	22848	8.371	411.4	18.0	
3	Drain Side Wall Concrete	M20	15/04/2021	22/04/2021	150.81 X 149.60 X 151.01	22560	8.264	410.0	18.2	

* The results obtained are satisfactory as per standard requirements.

Note:
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-106

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 13/05/2021

Lab ID	:	CP-2021-06-22-31
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and drains at SFS 707 and Surrounding Area in Ward No 03."
Agency	:	Sri H S Palaksha Murthy, No:703, 6th Main Road, 4th Cross, Near Gandhi Park, Vijayanagara, Bangalore-560040
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-9/W.O/264/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-04-21
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl 5
Date of test	:	13/05/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	15/04/2021	13/05/2021	150.61 X 151.17 X 150.77	22767	8.467	531.5	23.3	23.2
2	Drain Side Wall Concrete	M20	15/04/2021	13/05/2021	151.43 X 149.14 X 150.84	22584	8.499	513.1	22.7	
3	Drain Side Wall Concrete	M20	15/04/2021	13/05/2021	149.86 X 150.88 X 150.98	22611	8.372	534.9	23.7	

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Authorized Signatory
Quality Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 22/04/2021

Lab ID	:	CP-2021-06-22-31
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and drains at SFS 707 and Surrounding Area in Ward No 03."
Agency	:	Sri.H S Palaksha Murthy, No:703, 6th Main Road, 4th Cross, Near Gandhi Park, Vijayanagara, Bangalore-560040
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-9/W.O/264/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-04-21
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	22/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	15/04/2021	22/04/2021	151.01 X 151.54 X 149.21	22884	8.574	423.4	18.5	18.3
2	Drain Side Wall Concrete	M20	15/04/2021	22/04/2021	151.62 X 151.66 X 149.93	22994	8.371	418.2	18.2	
3	Drain Side Wall Concrete	M20	15/04/2021	22/04/2021	149.15 X 151.93 X 151.15	22660	8.264	412.1	18.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 22/04/2021

Lab ID	:	CP-2021-06-22-31
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and drains at SFS 707 and Surrounding Area in Ward No 03."
Agency	:	Sri.H S Palaksha Murthy, No:703, 6th Main Road, 4th Cross, Near Gandhi Park, Vijayanagara, Bangalore-560040
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-9/W.O/264/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-04-21
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl 5
Date of test	:	22/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	15/04/2021	22/04/2021	151.52 X 151.53 X 151.23	22960	8.574	429.1	18.7	18.3
2	Drain Side Wall Concrete	M20	15/04/2021	22/04/2021	151.06 X 151.40 X 150.73	22871	8.371	416.2	18.2	
3	Drain Side Wall Concrete	M20	15/04/2021	22/04/2021	149.84 X 150.99 X 151.43	22625	8.264	408.3	18.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 21/04/2021

Lab ID	:	CP-2021-06-22-31
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and drains at SFS 707 and Surrounding Area in Ward No 03."
Agency	:	Sri.H S Palaksha Murthy, No:703, 6th Main Road, 4th Cross, Near Gandhi Park, Vijayanagara, Bangalore-560040
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-9/W.O/264/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-04-21
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	21/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	Drain Side Wall Concrete	M20	14/04/2021	21/04/2021	149.63 X 151.84 X 151.94	22720	8.574	418.4	18.4	18.4
2	Drain Side Wall Concrete	M20	14/04/2021	21/04/2021	149.17 X 150.46 X 149.26	22445	8.371	414.6	18.5	
3	Drain Side Wall Concrete	M20	14/04/2021	21/04/2021	151.27 X 151.62 X 150.92	22936	8.264	419.1	18.3	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 12/05/2021

Lab ID	:	CP-2021-06-22-31
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and drains at SFS 707 and Surrounding Area in Ward No 03."
Agency	:	Sri H S Palaksha Murthy, No:703, 6th Main Road, 4th Cross, Near Gandhi Park, Vijayanagara, Bangalore-560040
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-9/W.O/264/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-04-21
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	12/05/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	14/04/2021	12/05/2021	149.89 X 151.53 X 151.66	22713	8.467	535.6	23.6	23.3
2	Drain Side Wall Concrete	M20	14/04/2021	12/05/2021	151.46 X 150.27 X 149.04	22761	8.499	515.3	22.6	
3	Drain Side Wall Concrete	M20	14/04/2021	12/05/2021	149.82 X 149.07 X 149.02	22335	8.372	531.8	23.8	

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Customer's Reference	:	BBMP/EE/YNK.D/EPMT-9/W.O/264/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-04-21
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	12/05/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	14/04/2021	12/05/2021	150.58 X 149.37 X 149.32	22492	8.467	524.5	23.3	23.2
2	Drain Side Wall Concrete	M20	14/04/2021	12/05/2021	149.48 X 149.07 X 151.61	22284	8.499	504.3	22.6	
3	Drain Side Wall Concrete	M20	14/04/2021	12/05/2021	149.12 X 150.97 X 150.63	22514	8.372	531.7	23.6	

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 10/05/2021

Lab ID	:	CP-2021-06-22-31
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and drains at SFS 707 and Surrounding Area in Ward No 03."
Agency	:	Sri H S Palaksha Murthy, No:703, 6th Main Road, 4th Cross, Near Gandhi Park, Vijayanagara, Bangalore-560040
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-9/W.O/264/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-04-21
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	10/05/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	12/04/2021	10/05/2021	149.46 X 150.99 X 150.29	22568	8.467	537.6	23.8	23.2
2	Drain Bottom Slab Concrete	M20	12/04/2021	10/05/2021	149.68 X 150.85 X 149.21	22579	8.499	497.5	22.0	
3	Drain Bottom Slab Concrete	M20	12/04/2021	10/05/2021	150.41 X 150.43 X 150.80	22626	8.372	534.2	23.6	

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Customer's Reference	:	BBMP/EE/YNK D/EPMT-9/W.O/264/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-04-21
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS. 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	10/05/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	12/04/2021	10/05/2021	150.70 X 150.43 X 151.19	22670	8.467	533.5	23.5	23.1
2	Drain Bottom Slab Concrete	M20	12/04/2021	10/05/2021	150.47 X 150.83 X 150.48	22695	8.499	506.9	22.3	
3	Drain Bottom Slab Concrete	M20	12/04/2021	10/05/2021	149.18 X 149.49 X 151.78	22301	8.372	523.3	23.5	

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 08/05/2021

Lab ID	:	CP-2021-06-22-31
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and drains at SFS 707 and Surrounding Area in Ward No 03."
Agency	:	Sri.H S Palaksha Murthy, No:703, 6th Main Road, 4th Cross, Near Gandhi Park, Vijayanagara, Bangalore-560040
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-9/W.O/264/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-04-21
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/05/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	10/04/2021	08/05/2021	151.00 X 149.89 X 149.05	22633	8.467	542.2	24.0	23.5
2	Drain Bottom Slab Concrete	M20	10/04/2021	08/05/2021	149.71 X 150.22 X 150.94	22489	8.499	504.6	22.4	
3	Drain Bottom Slab Concrete	M20	10/04/2021	08/05/2021	151.92 X 150.93 X 151.39	22929	8.372	550.0	24.0	

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2021-06-22-31

Date: 05-04-21

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	8.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.4	
3	Specific Gravity	2.62	–
4	Bulk Density(Loose) (Kg/l)	1.42	–
5	Bulk Density(Compacted) (Kg/l)	1.48	–
6	Water Absorption(%)	0.35	–
7	Aggregate crushing Value(%)	24.8	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface
8	Aggregate Impact Value(%)	25.1	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

* The results obtained are satisfactory as per standard requirements.

Note:

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All information furnished by Customer/Representative

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TEST REPORT OF FINE AGGREGATE

Date: 05-04-21

Lab ID	:	CP-2021-06-22-31
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and drains at SFS 707 and Surrounding Area in Ward No 03."
Agency	:	Sri.H S Palaksha Murthy, No:703, 6th Main Road, 4th Cross, Near Gandhi Park, Vijayanagara, Bangalore-560040
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-9/W.O/264/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-04-21
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
Date of test	:	02-04-21
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF PRECAST COVER SLAB

Date: 21-04-21

Lab ID	:	CP-2021-06-22-31
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and drains at SFS 707 and Surrounding Area in Ward No 03."
Agency	:	Sri.H S Palaksha Murthy, No:703, 6th Main Road, 4th Cross, Near Gandhi Park, Vijayanagara, Bangalore-560040
Customer's Reference	:	BBMP/EE/YNK D/EPMT-9/W.O/264/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-04-21
Sample Type /Size	:	Precast Cover Slab (100mm)
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	17/04/2021

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 17/04/2021

Lab ID	:	CP-2021-06-22-31
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and drains at SFS 707 and Surrounding Area in Ward No 03."
Agency	:	Sri H S Palaksha Murthy, No:703, 6th Main Road, 4th Cross, Near Gandhi Park, Vijayanagara, Bangalore-560040
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-9/W.O/264/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-04-21
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl 5
Date of test	:	17/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	10/04/2021	17/04/2021	149.13 X 150.17 X 149.93	22396	8.574	418.6	18.7	18.7
2	Drain Bottom Slab Concrete	M20	10/04/2021	17/04/2021	149.01 X 150.65 X 149.48	22449	8.371	417.8	18.6	
3	Drain Bottom Slab Concrete	M20	10/04/2021	17/04/2021	150.16 X 151.74 X 151.52	22785	8.264	425.5	18.7	

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2021-06-22-31** **Date: 05-04-21**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and drains at SFS 707 and Surrounding Area in Ward No 03."
Agency	:	Sri.H S Palaksha Murthy, No:703, 6th Main Road, 4th Cross, Near Gandhi Park, Vijayanagara, Bangalore-560040
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-9/W.O/264/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-04-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	03-04-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.76	–
2	Finess by Air permeablity method (m^2/kg.Min)	292.1	225m^2/kg. Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2021-06-22-31** **Date: 05-04-21**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and drains at SFS 707 and Surrounding Area in Ward No 03."
Agency	:	Sri.H S Palaksha Murthy, No:703, 6th Main Road, 4th Cross, Near Gandhi Park, Vijayanagara, Bangalore-560040
Customer's Reference	:	BBMP/EE/YNK D/EPMT-9/W.O/264/2020-21
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	02-04-21
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	02-04-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	245	245	1.6	98.4	90-100
3	20 mm	7875	8120	54.1	45.9	30-70
4	10 mm	3899	12019	80.1	19.9	10-35
5	4.75 mm	2588	14607	97.4	2.6	0-5
6	Pan	393	15000	100.0	0	---

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